KOMPARASI ALGORITMA MODIFIED K-NEAREST NEIGHBOR (MKNN) DAN CLASSIFICATION AND REGRESSION TREE DALAM PENENTUAN PENERIMA BEASISWA ILMU DASAR AGAMA

(Studi Kasus: UIN Sunan Gunung Djati Bandung)

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ABSTRAK

Beasiswa Ilmu Dasar Agama adalah beasiswa dari pemerintah departemen agama yang disediakan oleh Universitas Islam Negeri Sunan Gunung Djati Bandung, untuk alumni MA/SMA dan yang sederajat, permasalahan yang terjadi tidak tepat sasaran dan proses manual. Maka dari itu dilakukan perbandingan algoritma *Modified K-nearest Neighbor* dan *Classification and Regression Tree* guna mengetahui kinerja algoritma mana yang baik dalam mengatasi permasalahan di Beasiswa Ilmu Dasar Agama ini. Hasil akhir pada penelitian ini bahwa algoritma *MKNN* dan *CART* berhasil diimplementasikan serta dari kedua algoritma ini yang bekerja secara optimal yaitu algoritma *MKNN* dengan rata rata akurasi sebesar 81,21% sedangkan rata rata akurasi *CART* sebesar 79,51%

Kata Kunci : Komparasi *Modified K-nearest Neighbor (MKNN), Classification and Regression Tree (CART)*

COMPARISON OF MODIFIED K-NEAREST NEIGHBOR (MKNN) AND CLASSIFICATION AND REGRESSION TREE ALGORITHMS IN THE DETERMINATION OF ILMU DASAR AGAMA SCHOLARSHIP

(*Case Study*: UIN Sunan Gunung Djati Bandung)

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ABSTRACT

IDA scholarship is a scholarship from the government department of religion provided by UIN Sunan Gunung Djati Bandung, for high school alumni and equally, problems that occur inappropriately targeted and manual process. Therefore, a comparison of Modified K-nearest Neighbor and Classification and Regression Tree algorithms is done to find out which algorithms perform well in solving problems in this Scholarship of Religious Basic Sciences. The final result in this study is that mknn and CART algorithms were successfully implemented as well as from these two algorithms that worked optimally, namely MKNN algorithm with average accuracy of 81.21% while average CART accuracy of 79.51%

Keywords : *Comparison Modified K-nearest Neighbor (MKNN) , Classification and Regression Tree (CART*)